

CASE STUDY - ebm-papst

THE CLIENTS REQUIREMENT...

Elcomponent's Energy Pro Provides Accurate Measurement for High-Efficiency Cooling.



ebm-papst are world leaders in supplying high-efficiency fans and motors to OEM markets in HVAC, IT, Industrial and Domestic markets. They are also involved in the upgrade market, assisting their customers to reduce

both costs and carbon emissions by changing existing AC fans to new more efficient EC technology.

Due to the large number of variables inherent in the re-design of fan cooling systems they do not rely solely on their own in-house performance data for calculating expected savings; they carry out customer trials using a portable data logger to verify actual performance in the field.

THE SOLUTION..

The Chelmsford based company has opted for Elcomponent's Energy Pro Data logger as the reference instrument for all customer trials of their innovative 'EC Technology' fan products. EC (Electronic commutation) fans are high efficiency DC Motors but with direct connection AC mains supply.

They deliver energy savings of over 30% compared to traditional AC types in a typical data centre environment.

Savings are achieved through a combination of motor efficiency and improved impeller designs, all of which results in a fan that is



cooler, quieter, and above all costs a lot less to run.

ebm-papst UK Ltd are offering their customers a 'trial' installation so that savings can be proven before the project is rolled out to cover the entire cooling scheme, and Elcomponent's Energy Pro3 phase data logger is used for the measurement duties.

THE CLIENT'S FEEDBACK...

James Cooper, ebm-papst Product Manager explains...

"We needed a rugged portable instrument that would measure all aspects of motor performance and cope with the special demands of non-sinusoidal waveforms in our EC fan motors. Elcomponent's Energy Pro ticks all the boxes- it's easy to use, and it's very close to the lab instruments on our airflow test rig in terms of accuracy. It allows us to demonstrate directly to our customers that the 30%+ savings we claim for the EC fans are real and guaranteed!"

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The Energy Pro is just part of Elcomponent's range of portable data loggers for electricity measurement, which includes the SPC Loggers - designed specifically for Energy Managers -as well as professional power quality analysers such as the PowerPro.

Elcomponent MD Bill Gysin comments...

"We are always proud to be associated with energy saving technology that works, and ebm-papst have made a huge investment reducing their customers' costs and carbon emissions. However, accurate measurement is key to delivering that technology to the market."

